

# Ray Optics

## # Refraction

The phenomenon of change of path of light when it goes from one medium to another is called refraction.

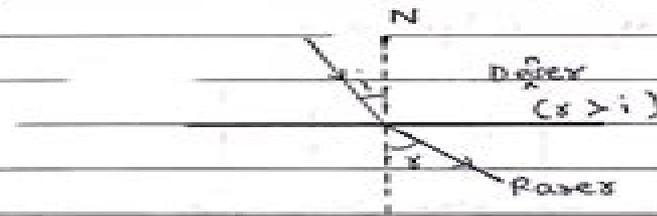
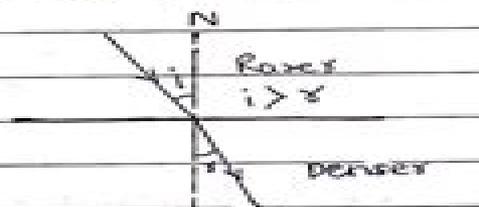
### • Laws of refraction -

- 1) The incident ray, the refracted ray and the normal to the reflecting surface at the point of incidence, all lie in the same plane.
- 2) The ratio of sine of the angle of incidence to the sine of the angle of refraction is constant for the two given media.

$$\text{i.e. } \frac{\sin i}{\sin r} = \mu_b$$

The constant  $\mu_b$  is called refractive index of medium b wrt medium a.

This law is also called Snell's law of refraction.



### NOTE:-

- 1) If light travels from rarer to denser medium, then it bends towards the normal.
- 2) If light travels from denser to rarer medium, then it bends away from the normal.

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**L Towne**



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